SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT:
 - (A) NAME: Bioteknologisk Institut
 - (B) STREET: Anker Engelunds Vej 1
 - (C) CITY: Lyngby
 - (D) COUNTRY: Denmark
 - (E) POSTAL CODE (ZIP): 2800
 - (ii) TITLE OF INVENTION: Recombinant Hexose Oxidase, a Method of Producing Same and Use of Such Enzyme
 - (iii) NUMBER OF SEQUENCES: 34
 - (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Tyr Glu Pro Tyr Gly Gly Val Pro 1 5

- (2) INFORMATION FOR SEQ ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Ala Ile Ile Asn Val Thr Gly Leu Val Glu Ser Gly Tyr Asp Xaa Xaa 1 5 10 15

Xaa Gly Tyr Xaa Val Ser Ser

(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Asp Leu Pro Met Ser Pro Arg Gly Val Ile Ala Ser Asn Leu Xaa Phe 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Asp Ser Glu Gly Asn Asp Gly Glu Leu Phe Xaa Ala His Thr
1 5 10

- (2) INFORMATION FOR SEQ ID NO: 5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Tyr Tyr Phe Lys

- (2) INFORMATION FOR SEQ ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Asp Pro Gly Tyr Ile Val Ile Asp Val Asn Ala Gly Thr Xaa Asp 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Xaa Ile Arg Asp Phe Tyr Glu Glu Met 1 5

- (2) INFORMATION FOR SEQ ID NO: 9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Ala Ile Ile Asn Val Thr Gly Leu Val Glu Ser Gly Tyr Asp Xaa Xaa 1 5 10 15

Xaa Gly Tyr Xaa Val Ser Ser 20

- (2) INFORMATION FOR SEQ ID NO: 10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B): TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Asp Leu Pro Met Ser Pro Arg Gly Val Ile Ala Ser Asn Leu Trp Phe 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Asp Ser Glu Gly Asn Asp Gly Glu Leu Phe Xaa Ala His Thr
1 5 10

- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Tyr Tyr Phe Lys

- (2) INFORMATION FOR SEQ ID NO: 13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Asp Pro Gly Tyr Ile Val Ile Asp Val Asn Ala Gly Thr Pro Asp 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

Xaa Ile Arg Asp Phe Tyr Glu Glu Met 1 5

- (2) INFORMATION FOR SEQ ID NO: 16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (ix) FEATURE:
 - (A) NAME/KEY: modified base; N=inosine
 - (B) LOCATION: base pairs 3, 6 and 12
 - (C) IDENTIFICATION METHOD: commercially available
 - (D) OTHER INFORMATION
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

(2) INFORMATION FOR SEQ ID NO: 17:

(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 23 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid	
(1X)	FEATURE:	
	(A) NAME/KEY: modified base; N=inosine(B) LOCATION: base pairs 6 and 12	
	(C) IDENTIFICATION METHOD: commercially available	
	(C) IDENTIFICATION METROD: COMMERCIALLY AVAILABLE (D) OTHER INFORMATION	
	(b) Ollibri Illi Oldari Ion	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 17:	
7 7 CC 7 N 7 D	RT TNGANGCDAT NAC	23
AACCANAR	RI INGANGCDAI NAC	23
(2) INFO	RMATION FOR SEQ ID NO: 18:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 23 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid	
(ix)	FEATURE:	
	(A) NAME/KEY: modified base; N=inosine	
	(B) LOCATION: base pairs 6 and 15 (C) IDENTIFICATION METHOD: commercially available	
	(C) IDENTIFICATION METHOD: Commercially available (D) OTHER INFORMATION	
	(b) Office information	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 18:	
•		
GARGGNAA	YG AYGGNGARCT NTT	23
(2) INFO	RMATION FOR SEQ ID NO: 19:	
	OFFICE OUR DESCRIPTION OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE	
(1)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid	
* -	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(b) Torobodi. Timeat	
(ii)	MOLECULE TYPE: other nucleic acid	
(ix)	FEATURE:	
	(A) NAME/KEY: modified base; N=inosine	
	(B) LOCATION: base pairs 3 and 9	
	(C) IDENTIFICATION METHOD: commercially available	
	(D) OTHER INFORMATION	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:	
AANAGYTCNC CRTCRTTNCC YTC	23
·	
(2) INFORMATION FOR SEQ ID NO: 20:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:	
ATTGGGGCTC CTTCAAGACC TT	22
(2) INFORMATION FOR SEQ ID NO: 21:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:	
TGATGATTCC AAAGTTTC	18
(2) INFORMATION FOR SEQ ID NO: 22:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:	
TTGGAAGAAT ACGGTTGG	18
(2) INFORMATION FOR SEQ ID NO: 23:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: other nucleic acid

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:	
TACTATTTCG TCTGCTTGGG	20
(2) INFORMATION FOR SEQ ID NO: 24:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:	
GAACTCTTCC GTGGTCTCCT	20
(2) INFORMATION FOR SEQ ID NO: 25:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:	
CCACCTGCGT GTTGGGGTCT	20
(2) INFORMATION FOR SEQ ID NO: 26:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:	
CAGATCTACA AAACATGCGA G	21

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(2)	INFO	RMATION FOR SEQ ID NO: 27:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 27:	
TGT	CGCAG	AC TGTACTTG	1
(2)	INFO	RMATION FOR SEQ ID NO: 28:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 28:	
GAG:	IGTAC	AC GACATAAA	18
(2)	INFO	RMATION FOR SEQ ID NO: 29:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 29:	
ATG	CTACT	TC TTCCCCAGAA AG	22
(2)	INFO	RMATION FOR SEQ ID NO: 30:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 1801 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	

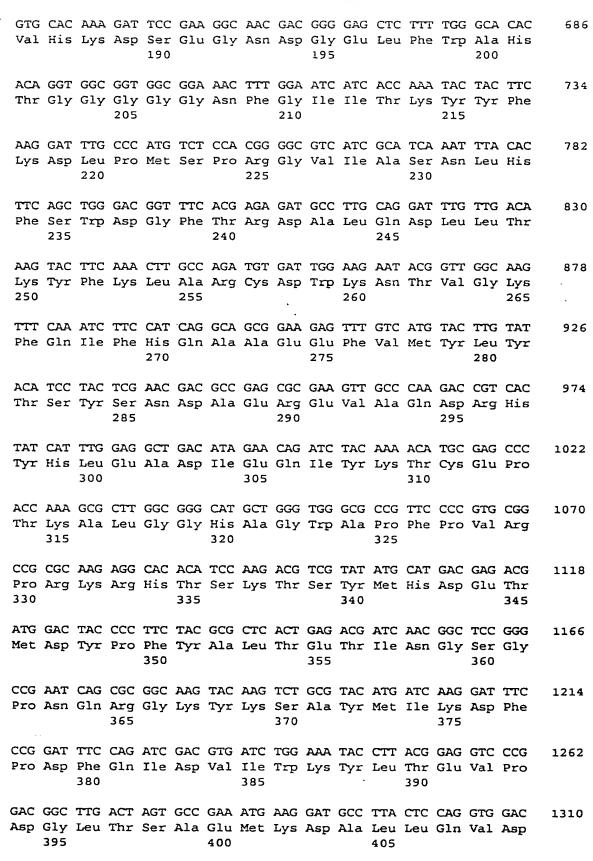
(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION:84..1721

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

(XI)	SEQUEN	CE DESCR	IPTION:	SEQ	א חד	U: 31	J:						
TGAATTCG	TG GGTC	GAAGAG C	CCTTTGC	CT CG	TCTC	TCTG	GTA	CCGT	GTA '	TGTC	AAAGGT	60	
TCGCTTGCAC ACTGAACTTC ACG ATG GCT ACT CTT CCT CAG AAA GAC CCC Met Ala Thr Leu Pro Gln Lys Asp Pro 1 5													
GGT TAT Gly Tyr 10			Val As									158	
CCA CGT Pro Arg												206	
ACT AAT . Thr Asn												254	
ACT GCA Thr Ala				u Lys								302	
ATC GTC Ile Val												350	
GTC AAG (Val Lys . 90			Val Th									398	
GAC GAT Asp Asp A										-		446	
TTC AAG Phe Lys												494	
TGC TAC				/ His								542	
ATT TTG (Ile Leu 1 155												590	
GAG GTC (Glu Val V 170												638	



		ATT Ile 415								1358
		ATC Ile								1406
		GCA Ala								1454
		CCG Pro								1502
		GGT Gly								1550
		AAC Asn 495	Lys							1598
		AAC Asn								1646
		ATC Ile								1694
		AAG Lys		TAGT	ragg7	CA (TAAT	TAGTO	CA .	1741

TCGACTGAAG TGCAGCACTT GTCGGATACG GCGTGATGGT TGCTTTTTAT AAACTTGGTA 1801

- (2) INFORMATION FOR SEQ ID NO: 31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 546 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

Met Ala Thr Leu Pro Gln Lys Asp Pro Gly Tyr Ile Val Ile Asp Val 1 5 10 15

Asn Ala Gly Thr Ala Asp Lys Pro Asp Pro Arg Leu Pro Ser Met Lys
20 25 30

Gln Gly Phe Asn Arg Arg Trp Ile Gly Thr Asn Ile Asp Phe Val Tyr

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Val Val Tyr Thr Pro Gln Gly Ala Cys Thr Ala Leu Asp Arg Ala Met Glu Lys Cys Ser Pro Gly Thr Val Arg Ile Val Ser Gly Gly His Cys Tyr Glu Asp Phe Val Phe Asp Glu Cys Val Lys Ala Ile Ile Asn Val Thr Gly Leu Val Glu Ser Gly Tyr Asp Asp Asp Arg Gly Tyr Phe Val 105 Ser Ser Gly Asp Thr Asn Trp Gly Ser Phe Lys Thr Leu Phe Arg Asp 120 His Gly Arg Val Leu Pro Gly Gly Ser Cys Tyr Ser Val Gly Leu Gly Gly His Ile Val Gly Gly Gly Asp Gly Ile Leu Ala Arg Leu His Gly Leu Pro Val Asp Trp Leu Ser Gly Val Glu Val Val Lys Pro Val Leu Thr Glu Asp Ser Val Leu Lys Tyr Val His Lys Asp Ser Glu Gly 180 Asn Asp Gly Glu Leu Phe Trp Ala His Thr Gly Gly Gly Gly Asn 200 Phe Gly Ile Ile Thr Lys Tyr Tyr Phe Lys Asp Leu Pro Met Ser Pro 210 215 220 Arg Gly Val Ile Ala Ser Asn Leu His Phe Ser Trp Asp Gly Phe Thr Arg Asp Ala Leu Gln Asp Leu Leu Thr Lys Tyr Phe Lys Leu Ala Arg 250 Cys Asp Trp Lys Asn Thr Val Gly Lys Phe Gln Ile Phe His Gln Ala 260 Ala Glu Glu Phe Val Met Tyr Leu Tyr Thr Ser Tyr Ser Asn Asp Ala Glu Arg Glu Val Ala Gln Asp Arg His Tyr His Leu Glu Ala Asp Ile 290 Glu Gln Ile Tyr Lys Thr Cys Glu Pro Thr Lys Ala Leu Gly Gly His Ala Gly Trp Ala Pro Phe Pro Val Arg Pro Arg Lys Arg His Thr Ser 330 Lys Thr Ser Tyr Met His Asp Glu Thr Met Asp Tyr Pro Phe Tyr Ala 345

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Leu Thr Glu Thr Ile Asn Gly Ser Gly Pro Asn Gln Arg Gly Lys Tyr 355 360 365

Lys Ser Ala Tyr Met Ile Lys Asp Phe Pro Asp Phe Gln Ile Asp Val 370 : 375 380

Ile Trp Lys Tyr Leu Thr Glu Val Pro Asp Gly Leu Thr Ser Ala Glu 385 390 395 400

Met Lys Asp Ala Leu Leu Gln Val Asp Met Phe Gly Gly Glu Ile His 405 410 415

Lys Val Val Trp Asp Ala Thr Ala Val Ala Gln Arg Glu Tyr Ile Ile 420 425 430

-Lys Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp Lys Asp Ala Val 435 440 445

Asn Leu Lys Trp Ile Arg Asp Phe Tyr Glu Glu Met Tyr Glu Pro Tyr 450 455 . 460

Gly Gly Val Pro Asp Pro Asn Thr Gln Val Glu Ser Gly Lys Gly Val 465 470 475 480

Phe Glu Gly Cys Tyr Phe Asn Tyr Pro Asp Val Asp Leu Asn Asn Trp
485 490 495

Lys Asn Gly Lys Tyr Gly Ala Leu Glu Leu Tyr Phe Leu Gly Asn Leu 500 505 510

Asn Arg Leu Ile Lys Ala Lys Trp Leu Trp Asp Pro Asn Glu Ile Phe 515 520 525

Thr Asn Lys Gln Ser Ile Pro Thr Lys Pro Leu Lys Glu Pro Lys Gln 530 535 540

Thr Lys

(2) INFORMATION FOR SEQ ID NO: 32:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

ACCAAGTTTA TAAAAAGCAA CCATCAC

33

(2)	INFO	PMATION FOR SEQ ID NO: 33:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B): TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 33:	
ATGA	ATTC	GT GGGTCGAAGA GCCC	24
(2)	INFO	RMATION FOR SEQ ID NO: 34:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

CAGGAATTCA TATGGCTACT CTTCCCCAGA AAG